

Notice of Allowability

Application No.

10/814,902

Examiner

Elias B. Hiruy

Applicant(s)

SCHRODER ET AL.

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 08/02/05.
2. ☒ The allowed claim(s) is/are 1,3-7,9-12 and 15-33.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date 01/26/05; 03/31/04
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____.
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____.


DAVID MARTIN
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2800

DETAILED ACTION

Response to Amendment

1. Applicant's amendment and argument filed on 08/02/05 are received and entered into record.
2. The objection of the drawings is withdrawn in view of the replacement sheet provided.
3. The rejection of claims 2, 8, 13, and 14 rejection is withdrawn as the claims have been cancelled in this amendment.
4. Applicant's arguments have been fully considered and are persuasive. The amended claims, 1, 3, and 17-19, and added claims, 30-33, are allowed based on their merit. Claims 4-7, 9-12, 16, 20-29, and 31-33 are also allowed as they directly or indirectly deepened on the independent claims 1, 17, and 30.

Allowable Subject Matter

5. Claims 1, 3-7, 9-12, and 15-33 are allowed.
6. The following is a statement of reasons for the indication of allowable subject matter:
 - Ruddy (US 2002/0144968 A1) shows an invention that provides a load measurement in a crane hoist system. The disclosure shows how a parameter adaptation process can be used to control a crane hoist with a gearbox and a drum.

- Kopeck (US 6653804) shows a method of controlling a bucket hoist using a flux vector AC drive.

Regarding claim 1, 17, and 33, however, none of the prior arts alone or in combination showed or taught the specific method/system that are found in independent claim 1, 17, and 33. The primary reason for allowance of claim 1 is:

superimposing a dampening actuating variable on the velocity of the chain wheel wherein the dampening actuating variable produces a change in the chain velocity so as to impede formation of a resonant oscillation wherein the dampening actuation variable is at least one chosen from a periodic variable and a stochastic variable, wherein a first input variable and a second input variable are supplied to said electronic damper, and wherein the dampening actuating variable is computed in said electronic damper from the first and second input variables and transferred to the electric motor.

Regarding claim 17, the following steps are the reason for allowance of the claim:

an electronic damper hooked up in front of the electric motor, said electronic damper controlling said electric motor including superimposing a dampening actuating variable on the velocity of said chain wheel; wherein a first input and a second input are provided to said electronic damper and the dampening actuating variable is computed in said electronic damper from the first and second inputs:

wherein the dampening actuating variable produces a change in the chain velocity so as to impede formation of a resonance oscillation, wherein the dampening actuation variable is at least one chosen from a periodic variable and a stochastic variable;

Regarding claim 30, the following steps are the reason for allowance of the claim:

superimposing a dampening actuating variable on the velocity of the chain wheel

*wherein the dampening actuating variable produces a change in the chain velocity so as to impede formation of a resonance oscillation wherein the dampening actuation variable is at least one chosen from a periodic variable and a stochastic variable, wherein a nominal rotary speed (n_{soll}) of the chain wheel is supplied to said electronic damper as a first input variable and an actual angle (Ψ_{rad}) of the chain wheel as a second input variable, wherein the dampening actuating variable is computed in said electronic damper from the first and second input variables, the dampening actuator variable being transferred to the electric motor in the form of a dampened rotary Speed (n^*_{soll});*

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Remarks

7. Twenty-nine claims are allowed.

Conclusion

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Please refer to attached PTO-892 form.

Correspondence

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Elias B. Hiruy whose telephone number is 571-272-

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6105. The examiner can normally be reached on 7:00AM - 4:30PM. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Martin can be reached on (571) 272-2107. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBB) at 866-217-9197 (toll-free).

EH

10/17/05